SEQUENCE LISTING

<110> Grey, Howard
Sette, Alessandro
Sidney, John

<120> HLA-A2.1 BINDING PEPTIDES AND THEIR USES

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<141> 1994-12-02

<150> 08/159,184
<151> 1993-11-29

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<151> 1993-06-04

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<151> 1993-03-05

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Gly Phe Leu Leu Leu Lys Tyr Arg Ala
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Cys Phe Pro Glu Ile Phe Gly Lys Ala
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Phe Phe Phe Pro Ser Leu Arg Glu Ala
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Phe Phe Pro Ser Leu Arg Glu Ala Ala
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Arg Ser Leu His Cys Lys Pro Glu Glu Ala
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Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala
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Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala

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1 5

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Tyr Ala Leu Thr Val Val Trp Leu Leu
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Ala Leu Thr Val Val Trp Leu Leu Val
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Phe Leu Tyr Gly Ala Leu Leu Leu
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Leu Leu Val Phe Ala Cys Ser Ala Val
 1   5

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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
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<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 372
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa
1 5

<210> 373

<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (4)...(5)
<223> Xaa = Any Amino Acid

<221> VARIANT
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Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 373
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 374
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 374
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 375
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 375
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 376
<211> 9
<212> PRT
<213> Homo Sapiens

<220>

<221> VARIANT
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<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 376
Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 377
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

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<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
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Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT

<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 377
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 378
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
      Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 378
Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 379
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 379
Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 380
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
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<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (7)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 380
Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 381
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Tyr, Phe, Trp

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (7)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 381
Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 382
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 382
Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Met
 1   5

<210> 383
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 383
Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 384
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 384
Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 385

<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 385
Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 386
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT

<222> (5)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 386
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 387
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
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<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
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<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)

<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 387
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 388
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Any Amino Acid

<221> VARIANT
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<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
      Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (7)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 388
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 389
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Ser, Thr, Cys

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Any Amino Acid

<221> VARIANT
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Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 389
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 390
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 390
Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
 1   5

<210> 391
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
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<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ila, Ala, Met

<400> 391
Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
 1   5

<210> 392
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,

Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 392
Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
1 5

<210> 393
<211> 9
<212> PRT
<213> Homo Sapiens

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<220>
<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 393
Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
1 5

<210> 394
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (2)...(2)

<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(5)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 394
Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
1 5

<210> 395
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(5)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 395

Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa
1 5

<210> 396
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 396
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 397
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 397
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 398
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Arg, Pro, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(9)
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1 5 10

<210> 424
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<213> Homo Sapiens

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<221> VARIANT
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<221> VARIANT
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 425
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<213> Homo Sapiens

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<221> VARIANT
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<223> Xaa = Leu, Val, Ile, Met

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<213> Homo Sapiens

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<222> (2)...(2)

<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met, Asn,
Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 427
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 428
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (6)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 428
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 429
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (6)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 429
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 430
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 430
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 431
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 431
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 432
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 432
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 433
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 433
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 434
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT

<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 434
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 435
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Leu, Val, Ile, Met

<221> VARIANT
<222> (4)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
      Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 435
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 436
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 436
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 437
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 437
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 438
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Pro, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 438
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 439
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Gln, Pro, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 439
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 440
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (6)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 440
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 441
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (6)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 441
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 442
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
      Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 442
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 443
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 443
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 444
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT

<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 444
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 445
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Ala, Cys, Phe, Gly, Ile, Leu, Met, Asn, Pro,
      Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 445
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 446
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT

<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 446
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 447
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)

<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 447
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 448
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 448
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 449
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
      Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT

<222> (3)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 449
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1.   5   10

<210> 450
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 450
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 451
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met,
Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (4)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 451
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 452
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met, Asn,
Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 452
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 453
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)
<223> Xaa = Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met, Asn,
Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 453
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 454
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
      Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (6)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 454
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 455
<211> 10

<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(4)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys,
Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (6)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 455
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 456
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
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<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(6)

<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 456
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 457
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(6)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 457
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 458
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Leu, Met, Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 458
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 459
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ile, Val, Ala, Thr

<221> VARIANT
<222> (3)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Tyr, Phe, Trp, Leu, Val, Ile, Met

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, Ile, Leu, Met,
Asn, Pro, Gln, Ser, Thr, Val, Trp, Tyr

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Ala, Met

<400> 459
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 460
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Val, Ile, Ala, Met

<400> 460
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 461
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Val, Ile, Ala, Met

<400> 461
Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 462
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Ile, Met

<400> 462
Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 463
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Ile, Met

<400> 463
Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 464
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)

<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Val, Met

<400> 464
Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 465
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Val, Met

<400> 465
Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 466
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Leu, Ile, Met

<400> 466
Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 467
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (2)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Leu, Ile, Met

<400> 467
Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 468
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<400> 468
Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Met
 1   5

<210> 469
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<400> 469
Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Met
 1   5   10

<210> 470
<211> 9
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(8)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Ala, Met

<400> 470
Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 471
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (3)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (10)...(10)
<223> Xaa = Ala, Met

<400> 471
Xaa Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5   10

<210> 472
<211> 9
<212> PRT
<213> Homo Sapiens

<400> 472

Lys Val Ala Glu Leu Val His Phe Leu
1 5